

ABSTRACT OF THE DISCLOSURE

5 The present invention provides novel proteins and peptides from the receptor binding
region of human Growth Arrest Specific Gene 6 (Gas6) and antibodies, including specified portions
or variants, specific for at least one such Gas6 peptide or fragment thereof. The aforesaid peptides
can be used to generate human, primate, rodent, mammalian, chimeric, humanized and/or CDR-
grafted anti-Gas6 antibodies. The invention also provides for the nucleic acids encoding such
peptides and anti-Gas6 antibodies, complementary nucleic acids, vectors, host cells, and methods of
10 making and using thereof, including therapeutic formulations, administration and devices. Fifteen
novel peptide sequences from the Gas6 G domain that are implicated in Gas6 interactions with its
receptors are identified, isolated, and synthesized so as to allow generation of anti-Gas6 antibodies.
The peptide sequences include three ESTs that encompass regions predicted to contribute to receptor
binding or that can raise anti-Gas6 antibodies. This invention provides for such antibodies to be used
15 in modulating or treating at least one Gas6-related disease in a cell, tissue, organ, animal, or patient.
Such diseases may include, but are not limited to, thromboembolic disease, ischemic disease, venous
thromboembolism, arterial or venous thrombosis, pulmonary embolism, restenosis, diabetic
angiopathy and allograft atherosclerosis.

20

25